

FRONTLINE FALL PROTECTION TEST REPORT

SCOPE OF WORKs

ANSI Z359.18 – 2017 Safety Requirements for Anchorage Connectors for Active Fall Protection Systems

REPORT NUMBER

105556094CRT-002

ISSUE DATE

8/31/2023

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TEST REPORT FOR FRONTLINE FALL PROTECTION

Report No.: 105556094CRT-002

Date: August 31, 2023

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Report Number..... : 105556094CRT-002

Signed Quote Number..... : Qu-01375375

PO Number..... N/A

Name of Testing Laboratory

Preparing the Report : Intertek Testing Services NA Inc.

Test Specification:

Standard..... : ANSI/ASSP Z359.18-2017

Date(s) of Testing..... : 8/30/23

Product Description:

Product Type: : Steel Bolt on Anchor

Brand Name: : Frontline

Model Number(s): : STB01

Date(s) Samples Received : 8/21/2023

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Date: August 31, 2023



SECTION 1

SUMMARY OF TESTING

TESTS COMPLETED	ANSI/ASSP Z359.18-2017 CLAUSE	STATUS
Static Strength Test (Per loading direction)	4.2.1.2	PASS
A Dynamic Strength Test- Type A	4.2.2.2.4	PASS
Residual Dynamic Strength- Type A	4.2.3.2	PASS

SECTION 2

This test report concludes the work anticipated in the testing phase of your project. If there are any questions regarding this report please contact the undersigned at 607-753-6711.

COMPLETED BY:	Alex Smith	REVIEWED BY:	Matthew Stevens
TITLE:	Technician	TITLE:	Team Leader
SIGNATURE:		SIGNATURE	
DATE	8/31/2023	DATE:	8/31/2023

Please see attached test data for details.

Date: August 31, 2023

SECTION 3

TESTING EQUIPMENT CALIBRATION INFORMATION

USED FOR TEST	DESCRIPTION	MANUFACTURER	CONTROL NO.	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE
X	Drop Test Structure	Intertek	NA	CAT. 3	-	N/A	N/A
X	Test Dead Weight	NA	15064	282 lbs	-	VBU	VBU
X	Load Cell	Interface	G139	-	-	11/15/22	11/15/23
X	Load Cell	Interface	L099	-	-	5/25/22	5/25/23
X	Tape Measure	Stanley	N1392	25'	-	2/14/23	2/14/24

SECTION 3

SUPPLEMENTAL TEST DATA

SECTION (TEST)	REQUIREMENT	RESULTS			COMPLIANCE	
3.2.2.2/4.2.2.2.4	<p><u>Dynamic Strength (Type A Anchor) :</u></p> <p>A) Install anchorage connector, conditioned according the applicable requirements of 4.2.2.1.2 or 4.2.2.1.3 on the test anchorage in accordance with 4.1.2</p> <p>B) Connect one end of the test lanyard to the connection point of the anchorage connector to be loaded or to the arrest force measuring instrumentation.</p> <p>C) Connect the other end of the test lanyard to the test weight specified in 4.1.3</p> <p>D) Raise the test weight to achieve a free-fall distance of 3' (+0.1/-0).</p> <p>E) Release the test weight by means of quick release mechanism.</p> <p>F) Evaluate the test results per 3.2.2.1</p>				PASS	
	Dynamic Strength Test		SAMPLE: 1	SAMPLE: 2		SAMPLE: 3
	Anchorage connector successfully arrest the test weight?		YES	YES		YES
	If deformation occurred did it create more than 1/8" (3mm) between gate and body?		N/A	N/A		N/A
	MAF (Ref Only) Lbs.		3295	3299		4613

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SECTION (TEST)	REQUIREMENT	RESULTS			COMPLIANCE
3.2.3.1/4.2.1.1	<p>Residual Dynamic Strength Test:</p> <ol style="list-style-type: none"> <u>1. Repetition of the test specified in 4.2.2.1 using same anchorage connector without further conditioning and the same test lanyard used in first test.</u> <u>2. Must support the test weight an additional minute after the residual dynamic drop.</u> <u>3. Evaluate the test results per 3.2.3.1</u> 				PASS
	Residual Dynamic Strength	SAMPLE: 1	SAMPLE: 2	SAMPLE: 3	
	Anchorage connector successfully arrest the test weight?	YES	YES	YES	
	Maintain the test weight for a period of at least 1 minute?	YES	YES	YES	
	If deformation occurred did it create more than 1/8" (3mm) between gate and body?	N/A	N/A	N/A	
	MAF (Ref Only) Lbs.	3240	3298	4612	

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SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
3.2.1.1/4.2.3.1	Static Strength Test for Type A Anchorage Connectors: A) <u>A new anchorage connector may be used for each test.</u> B) <u>Test force shall be 5,000 pounds (+50/-0)</u> C) <u>Install anchorage connector on the test anchorage in accordance with requirements of 4.1.2.</u> D) <u>Apply load to the anchorage connector in the direction(s) of loading specified in 4.1.2.5.</u> E) <u>Apply load at no greater than 2"/min and maintain 5,000 pound test load for at least 3 minutes.</u> F) <u>Release load</u> G) <u>Evaluate the test results per 3.2.1.1</u>		PASS
	Static Strength Requirements	SAMPLE 3 SAMPLE 4 SAMPLE 5	
	Anchorage resist the test load?	YES YES YES	
	If deformation occurred did it create more than 1/8" (3mm) between gate and body?	NA NA NA	

SECTION 5

REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
105556094CRT-002	8/31/2023	Original Report	Alex Smith	Matthew Stevens

Date: August 31, 2023

SECTION 6

PHOTOGRAPH

